

Title (en)

Thermoplastic polyurethanes with high glass transition temperatures.

Title (de)

Thermoplastische Polyurethane mit hoher Glasübergangstemperatur.

Title (fr)

Polyuréthanes thermoplastiques à haute température de transition vitreuse.

Publication

**EP 0320946 B1 19950712 (EN)**

Application

**EP 88121022 A 19881215**

Priority

US 13426287 A 19871217

Abstract (en)

[origin: EP0320946A2] Disclosed are novel high flexural modulus polyurethane plastics wherein a polyisocyanate and a particular combination of extenders including cycloalkane diol are reacted optionally in the presence of a minor proportion of high molecular weight polyol. The polymers have outstanding resistance to high temperatures thereby expanding their utilities into higher temperature end-use environments than related prior art materials. Certain members of these new polymers are also possessed of outstanding optical clarity which thereby provides a combination of properties heretofore not available in a polyurethane. These polymers are easily melt-fabricated notwithstanding their inherent high temperature properties.

IPC 1-7

**C08G 18/32**; **C08G 18/66**

IPC 8 full level

**C08G 18/32** (2006.01); **C08G 18/65** (2006.01); **C08G 18/66** (2006.01); **C08L 75/04** (2006.01)

CPC (source: EP KR US)

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C-Set (source: EP US)

1. **C08L 75/04** + **C08L 33/06** + **C08L 55/02** + **C08L 9/06**
2. **C08L 75/04** + **C08L 2666/04**
3. **C08L 75/04** + **C08L 33/00**
4. **C08L 75/04** + **C08L 55/02**

Cited by

KR100883265B1; EP0500259A3; EP0462471A3; US5237001A; EP1178063A1; KR100730670B1; EP0434467A3; US2012172143A1; US8979669B2; DE102006021734A1; EP1241201A1; EP0358406A3; US9694253B2; US6806342B2; WO9415985A1; WO0210249A1; WO9322383A1; WO9719995A1; US9221941B2

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